

**CPC****COOPERATIVE PATENT CLASSIFICATION****D06N**

**WALL, FLOOR OR LIKE COVERING MATERIALS, e.g. LINOLEUM, OILCLOTH, ARTIFICIAL LEATHER, ROOFING FELT, CONSISTING OF A FIBROUS WEB COATED WITH A LAYER OF MACROMOLECULAR MATERIAL; FLEXIBLE SHEET MATERIAL NOT OTHERWISE PROVIDED FOR** (laminates in general B32B; coated webs which retain the character of paper or cardboard D21)

**NOTE**

Layered products classified in this subclass are also classified in subclass B32B.

**WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[D06N 7/02](#) covered by D06M, D06N  
[D06N 7/04](#) " " D06M, D06N  
[D06N 7/06](#) " " D06M, D06N

**D06N 1/00**

**Linoleum** {e.g. linoxyn, polymerised or oxidised resin}

**D06N 3/00**

**Artificial leather, oilcloth or { other } material obtained by covering fibrous webs with macromolecular material, e.g. resins, rubber or derivatives thereof**

**D06N 3/0002**

. { characterised by the substrate}

**D06N 3/0004**

.. { using ultra-fine two-component fibres, e.g. island/sea, or ultra-fine one component fibres (< 1 denier)}

**D06N 3/0006**

.. { using woven fabrics}

**D06N 3/0009**

.. { using knitted fabrics}

**D06N 3/0011**

.. { using non-woven fabrics}

**D06N 3/0013**

.. { using multilayer webs}

**D06N 3/0015**

.. {using fibres of specified chemical or physical nature, e.g. natural silk}

**D06N 3/0018**

... {Collagen fibres or collagen on fibres}

**D06N 3/002**

... {Asbestos fibres}

**D06N 3/0022**

... {Glass fibres}

**D06N 3/0025**

... { Rubber threads; Elastomeric fibres; Stretchable, bulked or crimped fibres; Retractable, crimpable fibres; Shrinking or stretching of fibres during manufacture; Obliquely threaded fabrics}

**D06N 3/0027**

.... { Rubber or elastomeric fibres}

**WARNING**

Groups [D06N 3/0027-D06N 3/0031](#) are not complete, pending

reorganisation. See also [D06N 3/0025](#)

- D06N 3/0029 . . . . { Stretchable fibres; Stretching of fibres during manufacture}
- D06N 3/0031 . . . . { Retractable fibres; Shrinking of fibres during manufacture }
- D06N 3/0034 . . . { Polyamide fibres (for elastomeric fibres [D06N 3/0025](#))}
- D06N 3/0036 . . . { Polyester fibres (for elastomeric fibres [D06N 3/0025](#))}
- D06N 3/0038 . . . { Polyolefin fibres (for elastomeric fibres [D06N 3/0025](#))}
- D06N 3/004 . . {using flocked webs or pile fabrics upon which a resin is applied; Teasing, raising web before resin application}
  
- D06N 3/0043 . { characterised by their foraminous structure; Characteristics of the foamed layer or of cellular layers (foraminous structure obtained by stretching [D06N 3/0029](#))}
- D06N 3/0045 . . {obtained by applying a ready-made foam layer; obtained by compressing, crinkling or crushing a foam layer, e.g. Kaschiervorfahren für Schaumschicht}
- D06N 3/0047 . . { obtained by incorporating air, i.e. froth }
- D06N 3/005 . . {obtained by blowing or swelling agent}
- D06N 3/0052 . . {obtained by leaching out of a compound, e.g. water soluble salts, fibres or fillers; obtained by freezing or sublimation; obtained by eliminating drops of sublimable fluid}
- D06N 3/0054 . . {obtained by mechanical perforations}
  
- D06N 3/0056 . [N: characterised by the compounding ingredients of the macro-molecular coating ([D06N 3/005](#) takes precedence)]
- D06N 3/0059 . . { Organic ingredients with special effects, e.g. oil- or water-repellent, antimicrobial, flame-resistant, magnetic, bactericidal, odour-influencing agents; perfumes ([D06N 3/0065](#) takes precedence)}
- D06N 3/0061 . . {Organic fillers or organic fibrous fillers, e.g. ground leather waste, wood bark, cork powder, vegetable flour; Other organic compounding ingredients; Post-treatment with organic compounds}
- D06N 3/0063 . . {Inorganic compounding ingredients, e.g. metals, carbon fibres, Na<sub>2</sub>CO<sub>3</sub>, metal layers; Post-treatment with inorganic compounds}
- D06N 3/0065 . . { Organic pigments, e.g. dyes, brighteners}
- D06N 3/0068 . . { Polymeric granules, particles or powder, e.g. core-shell particles, microcapsules }
  
- D06N 3/007 . { characterised by mechanical or physical treatments ([D06N 3/0029](#), [D06N 3/0031](#) take precedence)}
- D06N 3/0072 . . {Slicing; Manufacturing two webs at one time}
- D06N 3/0075 . . {Napping, teasing, raising or abrading of the resin coating (raising, napping of the web before coating [D06N 3/004](#))}
- D06N 3/0077 . . {Embossing; Pressing of the surface; Tumbling and crumbling; Cracking; Cooling; Heating, e.g. mirror finish}
- D06N 3/0079 . . {Suction, vacuum treatment}
- D06N 3/0081 . . { by wave energy or particle radiation ([D06N 3/08](#) takes precedence)}
- D06N 3/0084 . . {by electrical processes, e.g. potentials, corona discharge, electrophoresis, electrolytic}
  
- D06N 3/0086 . {characterised by the application technique}

- D06N 3/0088 . . { by directly applying the resin ([D06N 3/0045](#) takes precedence)}
- D06N 3/009 . . . {by spraying components on the web ([powder D06N 3/0093](#))}
- D06N 3/0093 . . . {by applying resin powders; by sintering}
- D06N 3/0095 . . {by inversion technique; by transfer processes}
- D06N 3/0097 . . . {Release surface, e.g. separation sheets; Silicone papers}
  
- D06N 3/02 . with cellulose derivatives
  
- D06N 3/04 . with macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
  
- D06N 3/042 . . { Acrylic polymers ([D06N 3/045](#) takes precedence)}
- D06N 3/045 . . { with polyolefin or polystyrene (co-)polymers}
- D06N 3/047 . . {with fluoropolymers}
- D06N 3/06 . . with polyvinylchloride or its copolymerisation products {(surface treatment or foaming for floor coverings [D06N 7/0007](#))}
- D06N 3/065 . . . {PVC together with other resins except polyurethanes (with polyurethanes [D06N 3/144](#))}
- D06N 3/08 . . . with a finishing layer consisting of polyacrylates, polyamides or polyurethanes {or polyester}
- D06N 3/10 . . with styrene-butadiene copolymerisation products { or other synthetic rubbers or elastomers except polyurethanes}
- D06N 3/103 . . . { Thermosetting synthetic rubbers}
- D06N 3/106 . . . { Elastomers}
  
- D06N 3/12 . with macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, {e.g. gelatine proteins}
  
- D06N 3/121 . . {with polyesters, polycarbonates, alkyds ([oils D06N 3/16](#))}
- D06N 3/123 . . . { with polyesters}
- D06N 3/125 . . {with polyamides}
- D06N 3/126 . . . {Poly-amino acids, e.g. polyglutamates}
- D06N 3/128 . . {with silicon polymers}
- D06N 3/14 . . with polyurethanes
- D06N 3/141 . . . { mixture of two or more polyurethanes in the same layer}
- D06N 3/142 . . . { mixture of polyurethanes with other resins in the same layer}
- D06N 3/143 . . . . {with polyurethanes and other polycondensation or polyaddition products, e.g. aminoplast}
- D06N 3/144 . . . . {with polyurethane and polymerisation products, e.g. acrylics, PVC}
- D06N 3/145 . . . {two or more layers of polyurethanes}
- D06N 3/146 . . . {characterised by the macromolecular diols used}
- D06N 3/147 . . . {characterised by the isocyanates used}
- D06N 3/148 . . . . {(cyclo)aliphatic polyisocyanates}
  
- D06N 3/16 . with oil varnishes {i.e. drying oil varnishes, preferably linseed-oil-based; factice ([sulfurised oils](#)), Turkish birdlime, resinates reacted with drying oils; naphthenic metal salts}

- D06N 3/18 . with two layers of different macromolecular materials ([D06N 3/08](#) takes precedence);  
{(with two layers of the same kind of macromolecular material [D06N 2213/03](#))}
- D06N 3/183 .. { the layers are one next to the other}
- WARNING**
- Groups [D06N 3/183](#) and [D06N 3/186](#) are not complete, pending reorganisation. See also [D06N 3/18](#)
- D06N 3/186 .. { one of the layers is on one surface of the fibrous web and the other layer is on the other surface of the fibrous web}
- D06N 5/00** { Roofing materials comprising a fibrous web coated with bitumen or another polymer, e.g. pitch (compositions of bituminous materials [C08L 95/00](#), roof covering [E04D 5/00](#), roofing underlays [E04D 12/002](#))}
- D06N 5/003 . { coated with bitumen}
- D06N 5/006 .. { characterised by the means to apply it to a support or to another roofing membrane, e.g. self-adhesive layer or strip}
- D06N 7/00** **Flexible sheet materials not otherwise provided for, e.g. textile threads, filaments, yarns or tow, glued on macromolecular material,** {e.g. fibrous top layer with resin backing, plastic naps or dots on fabrics}
- D06N 7/0002 . { Wallpaper or wall covering on textile basis}
- WARNING**
- groups [D06N 7/00A](#), [D06N 7/00D-D06N 7/0097](#) are not complete, pending reorganisation. See also [D06N 7/00](#)
- D06N 7/0005 . { Floor covering on textile basis comprising a fibrous substrate being coated with at least one layer of a polymer on the top surface}
- D06N 7/0007 .. {characterised by their relief structure}
- D06N 7/001 ... {obtained by mechanical embossing}
- D06N 7/0013 ... {obtained by chemical embossing (chemisches Prägen)}
- D06N 7/0015 .... {use of inhibitor for the blowing agent or inhibitor for the kicker e.g. trimellitic anhydride, triazole}
- D06N 7/0018 .... {use of kicker for the blowing agent, e.g. Beschleunigungsverfahren}
- D06N 7/0021 .... {use of a swelling agent}
- D06N 7/0023 ... {obtained by physical means, e.g. differential heating or differential irradiation; masking certain areas during treating}
- D06N 7/0026 ... {obtained by moulding, e.g. moulding table (tapis moule)}
- D06N 7/0028 .. {characterised by colour effects, e.g. craquelè, reducing gloss (terrazzo by sintering [D06N 7/0057](#))}
- D06N 7/0031 ... {mixture of two or more dyes, pigments, brighteners in the same layer}
- D06N 7/0034 ... {two or more different colour layers}
- D06N 7/0036 .. { characterised by their backing, e.g. secondary backing, back-sizing}

- D06N 7/0039 .. {characterised by the physical or chemical aspects of the layers}
- D06N 7/0042 ... { Conductive or insulating layers; Antistatic layers; Flame-proof layers}
- D06N 7/0044 ... {Sealing or barrier layers, e.g. against solvents, asphalt, plasticisers}
- D06N 7/0047 ... { Special extra layers under the surface coating, e.g. wire threads}
- D06N 7/0049 .... {Fibrous layer(s); Fibre reinforcement; Fibrous fillers}
- D06N 7/0052 ... { Compounding ingredients, e.g. rigid elements (compounding ingredients of the macromolecular coating [D06N 3/0056](#))}
- D06N 7/0055 .... {Particulate material such as cork, rubber particles, reclaimed resin particles, magnetic particles, metal particles, glass beads}
- D06N 7/0057 ... {Layers obtained by sintering or glueing the granules together}
- D06N 7/006 .. {characterised by the textile substrate as base web (for intermediate fibrous webs [D06N 7/0049](#))}
- D06N 7/0063 . { Floor covering on textile basis comprising a fibrous top layer being coated at the back with at least one polymer layer, e.g. carpets, rugs, synthetic turf}

#### **WARNING**

Groups [D06N 7/00C-D06N 7/0084](#) are not complete, pending reorganisation.  
See also [D06N 7/0036](#)

- D06N 7/0065 .. { characterised by the pile}

#### **WARNING**

Groups [D06N 7/0065](#), [D06N 7/0068](#) are not complete, pending reorganisation. See also [D06N 7/006](#)

- D06N 7/0068 .. { characterised by the primary backing or the fibrous top layer}
- D06N 7/0071 .. { characterised by their backing, e.g. pre-coat, back coating, secondary backing, cushion backing}
- D06N 7/0073 ... { the back coating or pre-coat being applied as an aqueous dispersion or latex}
- D06N 7/0076 ... { the back coating or pre-coat being a thermoplastic material applied by e.g. extrusion coating, powder coating or laminating a thermoplastic film}
- D06N 7/0078 ... { the back coating or pre-coat being applied as a hot melt}
- D06N 7/0081 ... { with at least one extra fibrous layer at the backing, e.g. stabilizing fibrous layer, fibrous secondary backing}
- D06N 7/0084 ... { with at least one layer obtained by sintering or bonding granules together}
- D06N 7/0086 ... { characterised by the cushion backing, e.g. foamed polyurethane}
- D06N 7/0089 .. { Underlays}
- D06N 7/0092 . { Non-continuous polymer coating on the fibrous substrate, e.g. plastic dots on fabrics}
- D06N 7/0094 . { Fibrous material being coated on one surface with at least one layer of an inorganic material and at least one layer of a macromolecular material}
- D06N 7/0097 . { Web coated with fibres, e.g. flocked}

**D06N 2201/00****Chemical constitution of the fibres, threads or yarns**

- D06N 2201/02 . Synthetic macromolecular fibres
- D06N 2201/0209 .. Elastomeric, elastic fibres, e.g. spandex, lycra
- D06N 2201/0218 .. Vinyl resin fibres
- D06N 2201/0227 ... Aromatic vinyl resin, e.g. styrenic (co)polymers
- D06N 2201/0236 ... Vinyl halide, e.g. PVC,PVDC,PVF,PVDF
- D06N 2201/0245 .. Acrylic resin fibres
- D06N 2201/0254 .. Polyolefin fibres
- D06N 2201/0263 .. Polyamide fibres
- D06N 2201/0272 ... Aromatic polyamide fibres
- D06N 2201/0281 .. Polyurethane fibres
- D06N 2201/029 .. Fluoropolymer fibres
- D06N 2201/04 . Vegetal fibres
- D06N 2201/042 .. Cellulose fibres, e.g. cotton
- D06N 2201/045 ... Lignocellulosic fibres, e.g. jute, sisal, hemp, flax, bamboo
- D06N 2201/047 ... Wood fibres
- D06N 2201/06 . Animal fibres , e.g hair, wool, silk
- D06N 2201/08 . Inorganic fibres
- D06N 2201/082 .. Glass fibres
- D06N 2201/085 .. Metal fibres
- D06N 2201/087 .. Carbon fibres
- D06N 2201/10 . Conjugate fibres , e.g. core-sheath, side-by-side
- D06N 2201/12 . Fibres being in the form of a tape, strip or ribbon

**<NO TITLE>****D06N 2203/00****Macromolecular materials of the coating layers**

- D06N 2203/02 . Natural macromolecular compounds or derivatives thereof
- D06N 2203/022 .. Natural rubber
- D06N 2203/024 .. Polysaccharides or derivatives thereof
- D06N 2203/026 ... Cellulose or derivatives thereof
- D06N 2203/028 ... Starch or derivatives thereof
- D06N 2203/04 . Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
- D06N 2203/041 .. Polyacrylic

D06N 2203/042	.. Polyolefin (co)polymers
D06N 2203/044	.. Fluoropolymers
D06N 2203/045	.. Vinyl (co)polymers
D06N 2203/047	... Aromatic vinyl (co)polymers, e.g. styrene
D06N 2203/048	... Polyvinylchloride (co)polymers
D06N 2203/06	. Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
D06N 2203/061	.. Polyesters
D06N 2203/063	.. Polycarbonates
D06N 2203/065	.. Polyamides
D06N 2203/066	.. Silicon polymers
D06N 2203/068	.. Polyurethanes
D06N 2203/08	. Bituminous material, e.g. asphalt, tar, bitumen
<b>D06N 2205/00</b>	<b>Condition, form or state of the materials</b>
D06N 2205/02	. Dispersion
D06N 2205/023	.. Emulsion, aqueous dispersion, latex
D06N 2205/026	.. Plastisol
D06N 2205/04	. Foam
D06N 2205/045	.. Froth
D06N 2205/06	. Melt
D06N 2205/08	. Microballoons, microcapsules
D06N 2205/10	. Particulate form, e.g. powder, granule
D06N 2205/103	.. Nanoparticles
D06N 2205/106	.. Scrap or recycled particles
D06N 2205/12	. Platelets, flakes
D06N 2205/14	. Fibrous additives or fillers
D06N 2205/16	. Solution
D06N 2205/18	. Scraps or recycled materials ( <a href="#">D06N 2205/106</a> takes precedence)
D06N 2205/20	. Cured materials e.g. vulcanised, cross-linked
D06N 2205/22	. Partially cured
D06N 2205/24	. Coagulated materials
D06N 2205/243	.. by heating, steam

D06N 2205/246 . . . by extracting the solvent

## **D06N 2207/00      Treatments by energy or chemical effects**

D06N 2207/02 . . . using vibration

D06N 2207/04 . . . using steam ([D06N 2205/243](#) takes precedence)

D06N 2207/06 . . . using liquids. e.g. water

D06N 2207/08 . . . using gas

D06N 2207/10 . . . using flames

D06N 2207/12 . . . by wave energy or particle radiation

D06N 2207/123 . . . using electromagnetic radiation, e.g. IR, UV, actinic light, laser, X-ray, gamma-ray, micro-wave, radio frequency

D06N 2207/126 . . . using particle radiation, e.g. ion, electron, neutron

D06N 2207/14 . . . Corona, ionisation, electrical discharge

## **D06N 2209/00      Properties of the materials**

D06N 2209/02 . . . having acoustical properties

D06N 2209/025 . . . Insulating, sound absorber

D06N 2209/04 . . . having electrical or magnetic properties

D06N 2209/041 . . . Conductive

D06N 2209/043 . . . Insulating

D06N 2209/045 . . . Magnetic, paramagnetic

D06N 2209/046 . . . Anti-static

D06N 2209/048 . . . Electromagnetic interference shielding

D06N 2209/06 . . . having thermal properties

D06N 2209/062 . . . Conductive

D06N 2209/065 . . . Insulating

D06N 2209/067 . . . Flame resistant, fire resistant

D06N 2209/08 . . . having optical properties

D06N 2209/0807 . . . Coloured

D06N 2209/0815 . . . . . on the layer surface, e.g. ink

D06N 2209/0823 . . . . . within the layer by addition of a colorant, e.g. pigments, dyes

D06N 2209/083 . . . . . Multi-coloured

D06N 2209/0838 . . . Bright, glossy, shiny surface

D06N 2209/0846 . . . Matt, dull surface

D06N 2209/0853 . . . Opaque



D06N 2209/0861	..	Transparent
D06N 2209/0869	..	Translucent
D06N 2209/0876	..	Reflective
D06N 2209/0884	..	Refractive
D06N 2209/0892	..	Luminescent, fluorescent, phosphorescent
D06N 2209/10	.	having mechanical properties
D06N 2209/101	..	Vibration damping, energy absorption
D06N 2209/103	..	Resistant to mechanical forces e.g. shock, impact, puncture, flexion, shear, compression, tear
D06N 2209/105	..	Resistant to abrasion, scratch
D06N 2209/106	..	Roughness, anti-slip, abrasiveness
D06N 2209/108	..	Slipping, anti-blocking, low friction
D06N 2209/12	.	Permeability or impermeability properties
D06N 2209/121	..	Permeability to gases, adsorption
D06N 2209/123	...	Breathable
D06N 2209/125	...	Non-permeable
D06N 2209/126	..	Permeability to liquids, absorption
D06N 2209/128	...	Non-permeable
D06N 2209/14	.	having chemical properties
D06N 2209/141	..	Hydrophilic
D06N 2209/142	..	Hydrophobic
D06N 2209/143	..	Inert, i.e. inert to chemical degradation, corrosion resistant
D06N 2209/145	..	Oleophobic
D06N 2209/146	..	Soilproof, soil repellent
D06N 2209/147	..	Stainproof, stain repellent
D06N 2209/148	..	Superabsorbing
D06N 2209/16	.	having other properties
D06N 2209/1607	..	Degradability
D06N 2209/1614	...	Biodegradable
D06N 2209/1621	...	Water-soluble, water-dispersible
D06N 2209/1628	..	Dimensional stability
D06N 2209/1635	..	Elasticity
D06N 2209/1642	..	Hardnes
D06N 2209/165	..	Odour absorbing, deodorizing ability
D06N 2209/1657	..	Printability
D06N 2209/1664	..	Releasability ( <a href="#">adhesive allowing removal of the whole carpet D06N 2213/066</a> ; <a href="#">releasability between at least two layers of a carpet, rug or synthetic lawn D06N 2213/068</a> )
D06N 2209/1671	..	Resistance to bacteria, mildew, mould, fungi
D06N 2209/1678	..	Resistive to light or to UV

- D06N 2209/1685 . . Wear resistance
- D06N 2209/1692 . . Weather resistance

#### **D06N 2211/00      Specially adapted uses**

- D06N 2211/02 . Agriculture
- D06N 2211/04 . Belts
- D06N 2211/06 . Building materials
- D06N 2211/063 . . Wall coverings
- D06N 2211/066 . . Floor coverings
- D06N 2211/08 . Cleaning articles ([personal care D06N 2211/24](#))
- D06N 2211/10 . Clothing
- D06N 2211/103 . . Gloves
- D06N 2211/106 . . Footwear
- D06N 2211/12 . Decorative or sun protection articles
- D06N 2211/122 . . Curtains
- D06N 2211/125 . . Awnings, sunblinds
- D06N 2211/127 . . Table cloth
- D06N 2211/14 . . Furniture, upholstery
- D06N 2211/16 . . Geotextiles
- D06N 2211/18 . . Medical, e.g. bandage, prostheses, catheter ([medical patches D06N 2211/22](#); [medical packaging D06N 2211/20](#))
- D06N 2211/20 . . Packaging
- D06N 2211/22 . . Patches, e.g. medical patches, repair patches
- D06N 2211/24 . . Personal care
- D06N 2211/26 . . Vehicles, transportation
- D06N 2211/261 . . . Body finishing, e.g. headliners
- D06N 2211/262 . . . Constructional panels
- D06N 2211/263 . . . Cars
- D06N 2211/265 . . . Trains
- D06N 2211/266 . . . Ships
- D06N 2211/267 . . . Aircraft
- D06N 2211/268 . . . Airbags
- D06N 2211/28 . . Artificial leather
- D06N 2211/30 . Filters

#### **D06N 2213/00      Others characteristics**

- D06N 2213/02 . All layers being of the same kind of material, e.g. all layers being of polyolefins, all

layers being of polyesters

- D06N 2213/03 . Fibrous web coated on one side with at least two layers of the same polymer type, e.g. two coatings of polyolefin
- D06N 2213/04 . Perforated layer
- D06N 2213/045 . . the coating layer does not completely close the openings between the fibres]
- D06N 2213/06 . Characteristics of the backing in carpets, rugs, synthetic lawn
- D06N 2213/061 . . Non-continuous back coating or pre-coat
- D06N 2213/063 . . Porous back coating or pre-coat
- D06N 2213/065 . . Two back coatings one next to the other
- D06N 2213/066 . . having an adhesive on the undersurface to allow removal of the whole carpet, rug or synthetic lawn from the floor, e.g. pressure sensitive adhesive
- D06N 2213/068 . . Releasability between at least two of the layers